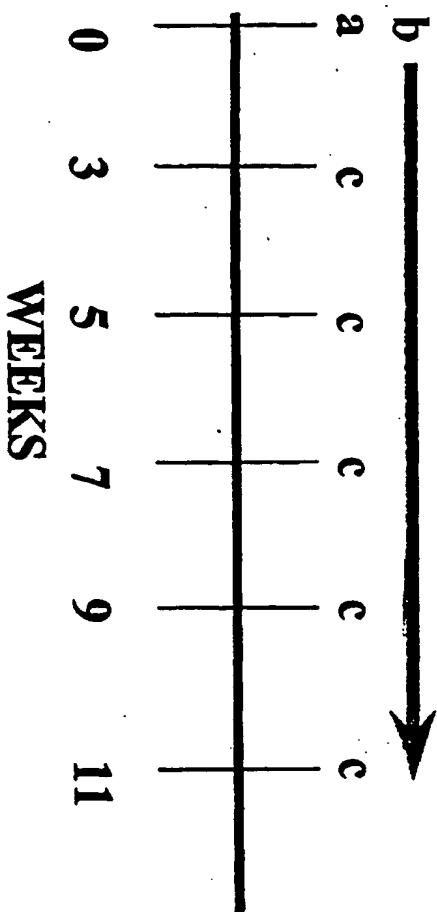


Experimental Design

FIGURE 1A

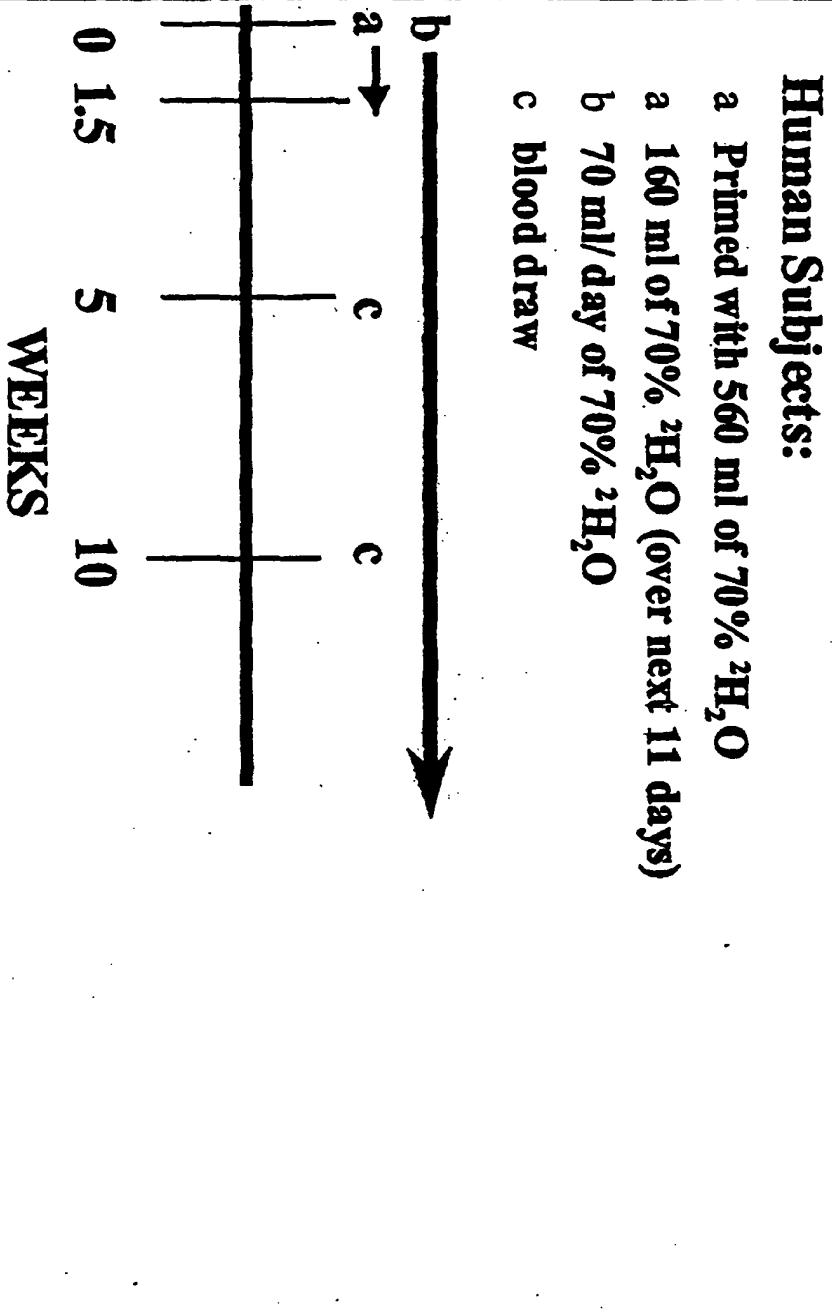
Animals: Normal Male Sprague Dawley Rats

- a Primed with 100 % $^{2}\text{H}_2\text{O}$ via intra-peritoneal injection to achieve 2% $^{2}\text{H}_2\text{O}$ in Body Water
- b 4% $^{2}\text{H}_2\text{O}$ Drinking Water
- c Sacrifice



Experimental Design

FIGURE 1B



Hindlimb mtDNA

% New Mitochondria

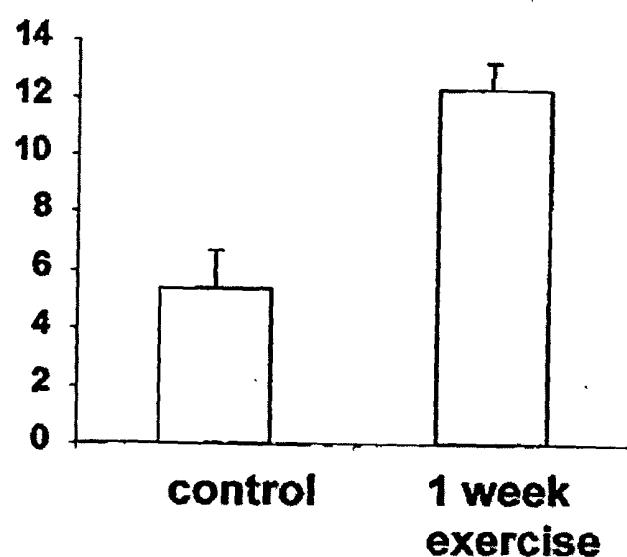
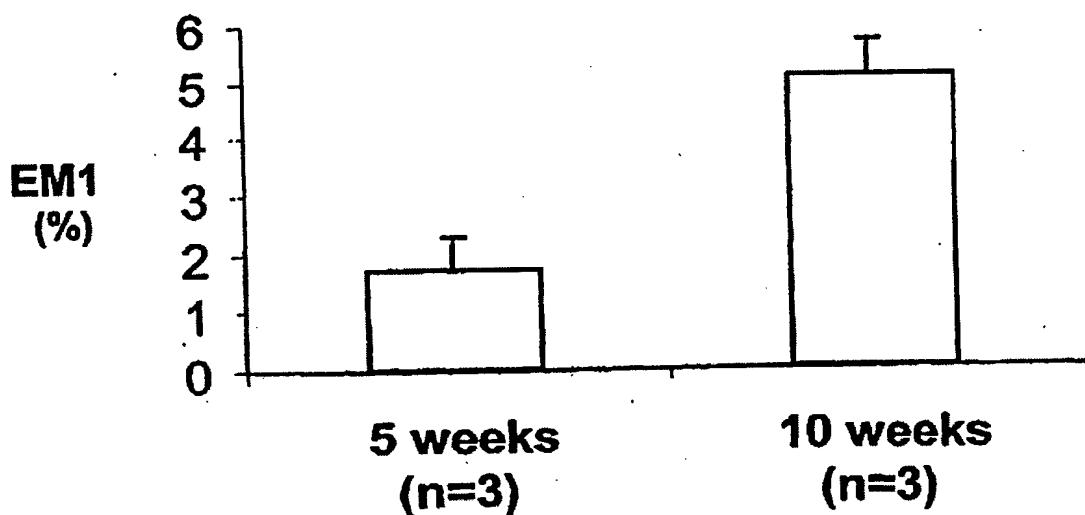


FIGURE 2A

FIGURE 2B
**Platelet Enrichment from
Human Subjects on $^{2}\text{H}_2\text{O}$**



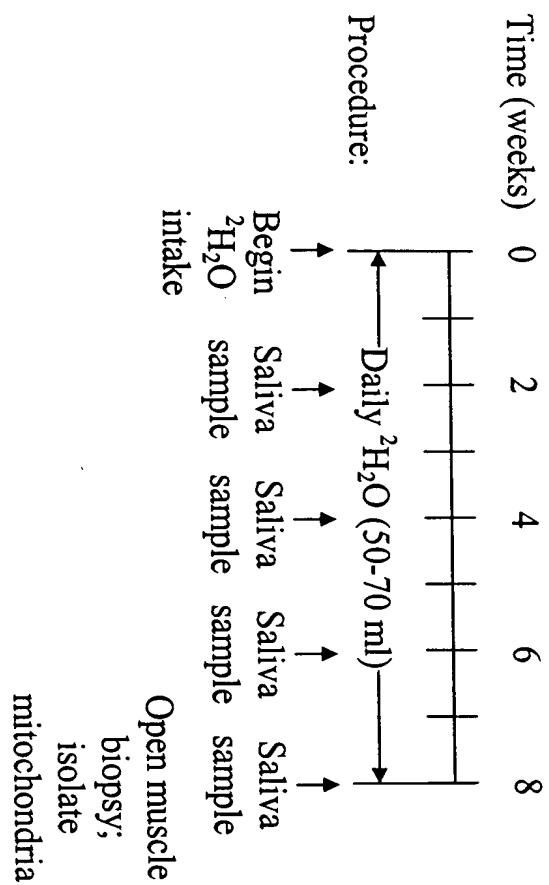
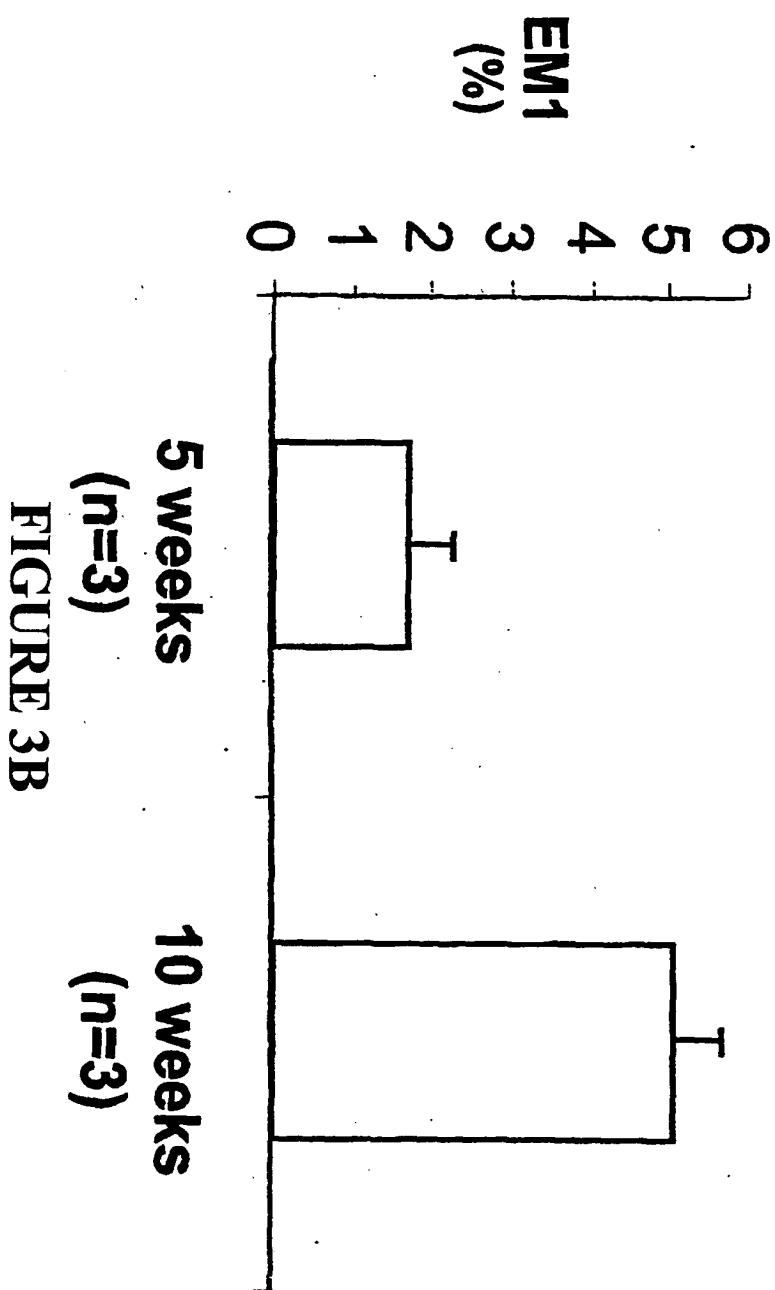


FIGURE 3A

Platelet Enrichment from Human Subjects on ${}^2\text{H}_2\text{O}$



5 weeks (n=3) 10 weeks (n=3)

FIGURE 3B

Fractional Replacement of Phospholipids In
Hindlimb Muscle of Female Sprague Dawley Rats

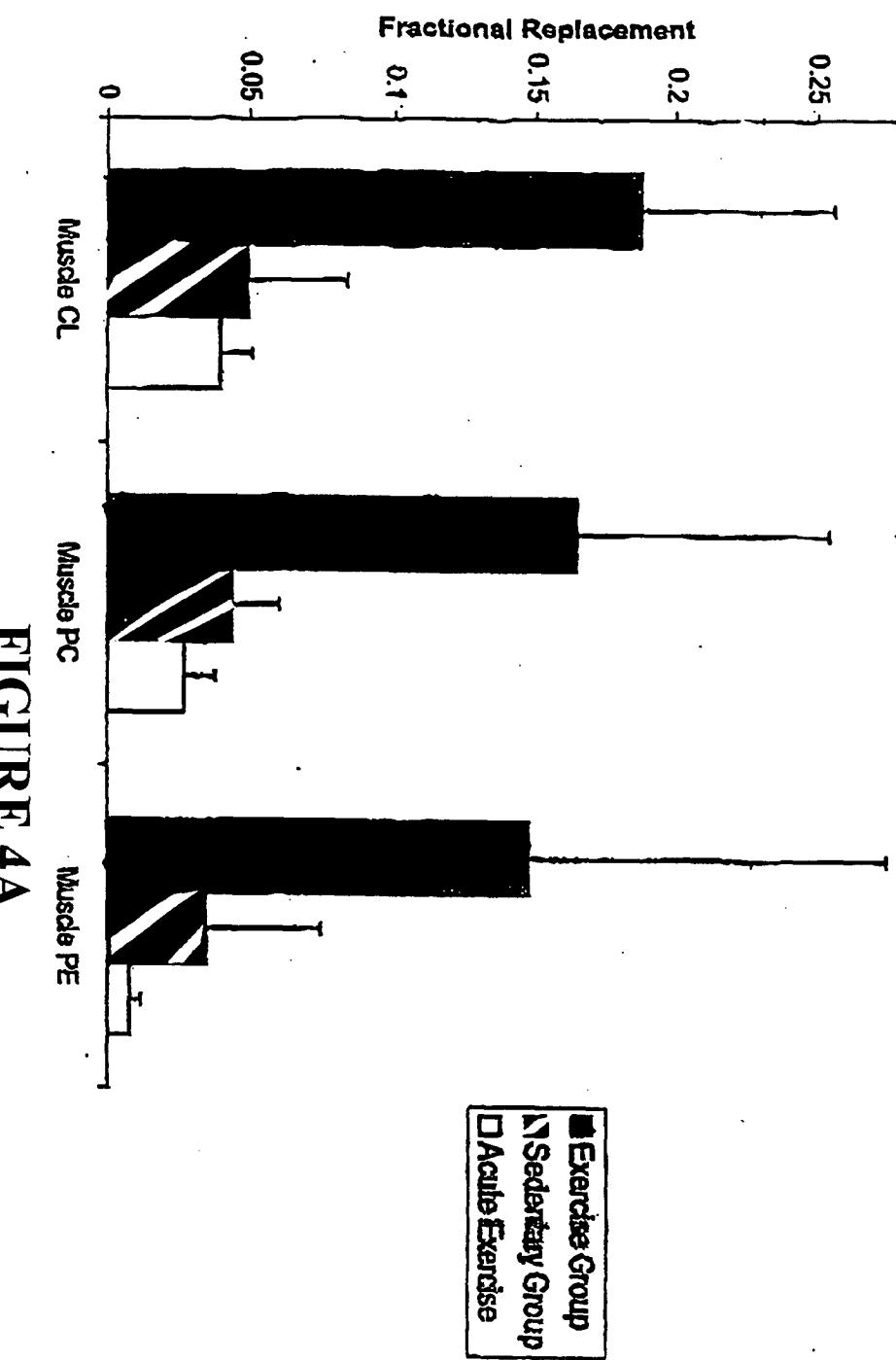


FIGURE 4A

**Fractional Replacement of Phospholipids in
Heart Muscle of Female Sprague Dawley Rats**

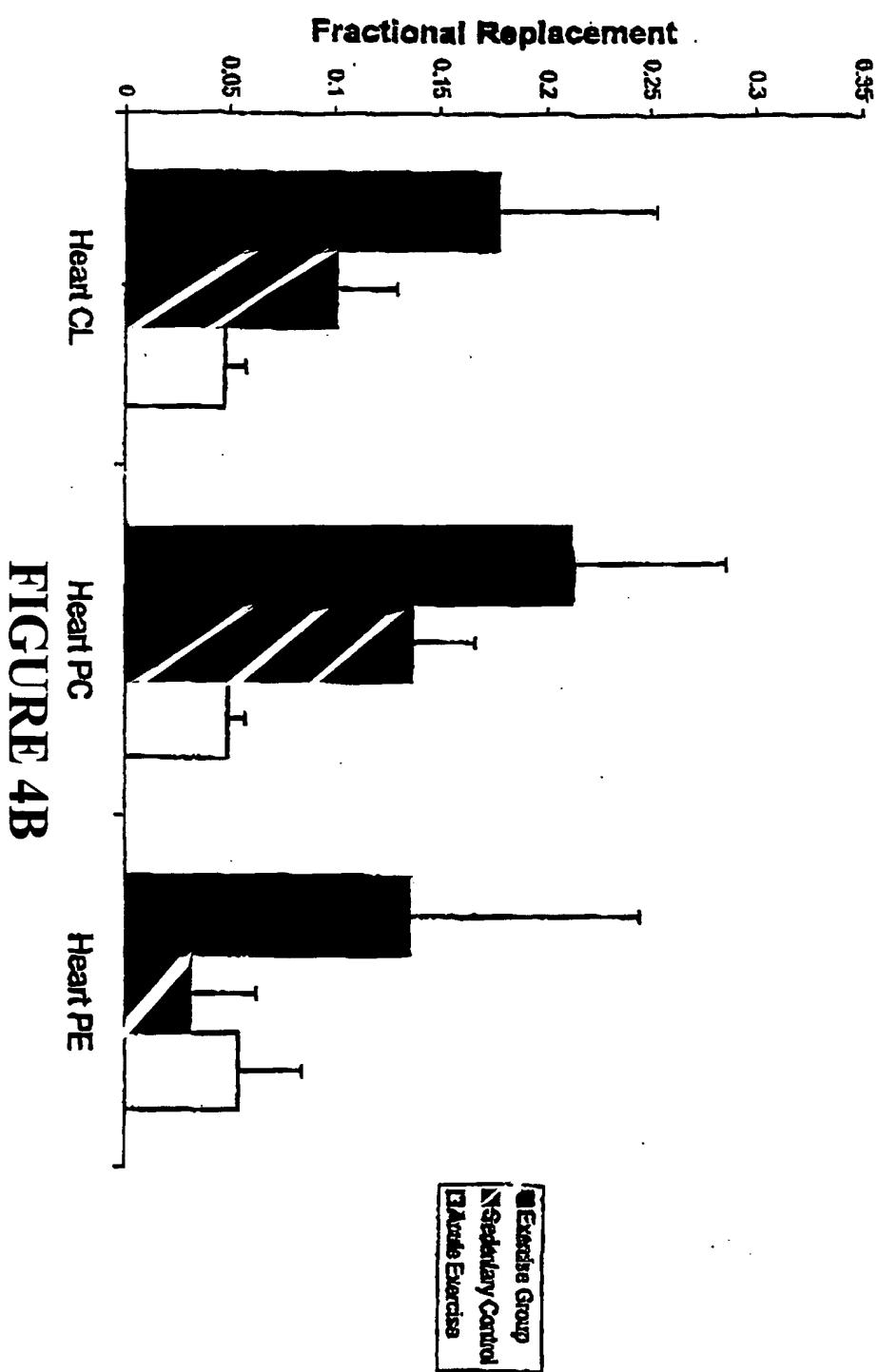


FIGURE 4B

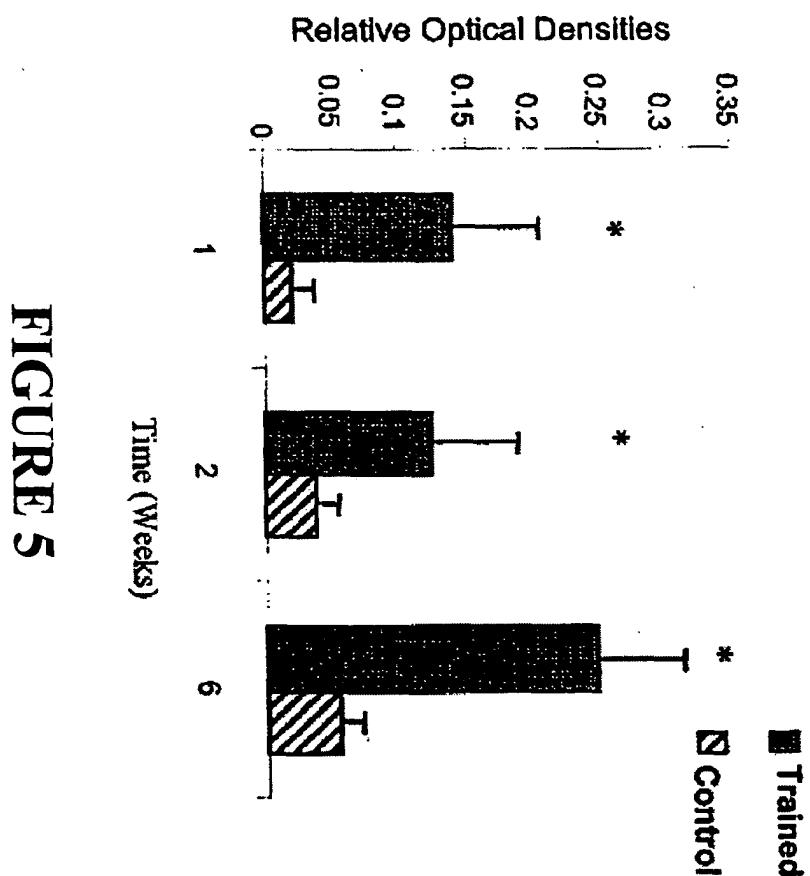


FIGURE 5

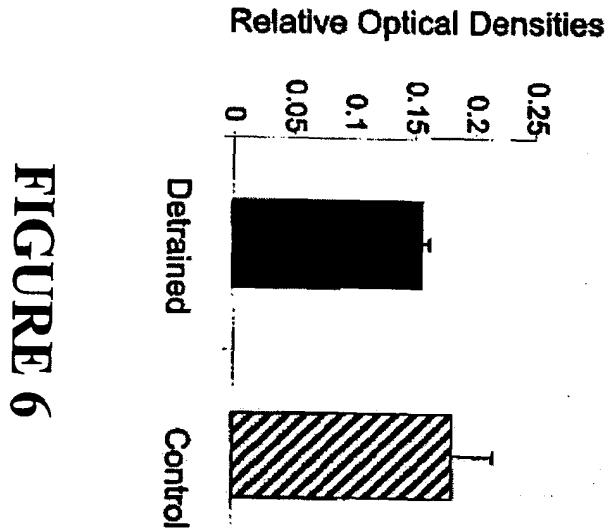


FIGURE 6